

**Product Name:** Ro 60-0175 fumarate

**Catalog No.:** 1854

**Batch No.:** 2

CAS Number: 169675-09-6

IUPAC Name: ( $\alpha$ S)-6-Chloro-5-fluoro- $\alpha$ -methyl-1*H*-indole-1-ethanamine fumarate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>12</sub>ClFN<sub>2</sub>.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

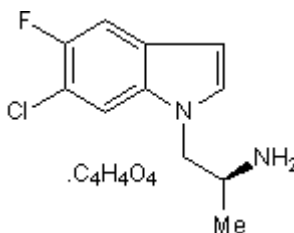
**Batch Molecular Weight:** 342.75

**Physical Appearance:** White solid

**Solubility:** water to 5 mM  
DMSO to 20 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:**  $[\alpha]_D = +31$  (Concentration = 0.25, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.5	4.7	8.17
Found	52.48	4.63	8.23

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**Description:**

Potent, selective 5-HT<sub>2C</sub> receptor agonist; shows selectivity for the 5-HT<sub>2C</sub> subtype (pK<sub>i</sub> values are 9, 7.5, 5.4, 5.2 and 5.6 for human 5-HT<sub>2C</sub>, 2A, 1A, 6 and 7 receptors respectively). Centrally active following oral or systemic administration in vivo.

**Physical and Chemical Properties:**

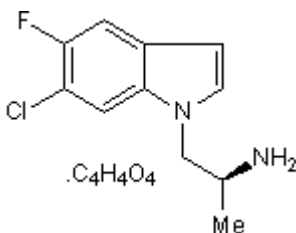
Batch Molecular Formula: C<sub>11</sub>H<sub>12</sub>ClFN<sub>2</sub>.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 342.75

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 5 mM  
DMSO to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Jensen et al** (2013) Design, synthesis, and pharmacological characterization of *N*- and *O*-substituted 5,6,7,8-tetrahydro-4*H*-isoxazolo [4,5-*d*]azepin-3-ol analogues: novel 5-HT<sub>2A</sub>/5-HT<sub>2C</sub> receptor agonists with pro-cognitive properties. *J.Med.Chem.* **56** 1211. PMID: 23301527.

**Damjanoska et al** (2003) Neuroendocrine evidence that (*S*)-2-(chloro-5-fluoro-indol-1-yl)-1-methylethylamine fumarate (Ro 60-0175) is not a selective 5-hydroxytryptamine<sub>2C</sub> receptor agonist. *J.Pharmacol.Exp.Ther.* **304** 1209. PMID: 12604698.

**Kennett et al** (2000) Effects of Ro 60 0175, a 5-HT<sub>2C</sub> receptor agonist, in three animal models of anxiety. *Eur.J.Pharmacol.* **387** 197. PMID: 10650160.

**Martin et al** (1998) 5-HT<sub>2C</sub> receptor agonists: pharmacological characteristics and therapeutic potential. *J.Pharmacol.Exp.Ther.* **286** 913. PMID: 9694950.

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